AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0050] with the following paragraph:

[0050] The complete sequence nucleotide sequence for MIS is disclosed in U.S. Patent No.5,047,336, which is hereby incorporated by reference. The DNA sequences of this invention are selected from the group consisting of: (a) the DNA sequences

AAGGTCG CGGCAGAGGA GATAGGGGTC TGTCCTGCAC AAACACCCCA CCTTCCACTC
GGCTCACTTA AGGCAGGCAG CCCAGCCCCT GGCAGCACCC ACGATGCGGG ACCTGCCTCT
CACCAGCCTG GCCCTAGTGC TGTCTGCCCT GGGGGCTCTG CTGGGGACTG AGGCCCTCAG
AGCAGAGGAG CCAGCTGTGG GCACCAGTGG CCTCATCTTC CGAGAAGACT TGGACTGGCC
TCCAGGCATC CCACAAGAGC CTCTGTGCCT GGTGGCACTG GGCGGGGACA GCAATGGCAG
CAGCTCCCCC CTGCGGGTGG TGGGGGCTCT AAGCGCCTAT GAGCAGGCCT TCCTGGGGGC
CGTGCAGAGG GCCCGCTGGG GCCCCCGAGA CCTGGCCACC TTCGGGGTCT GCAACACCGG
TGACAGGCAG GCTGCCTTGC CCTCTCTACC GCGGCTGGGG GCCTGGCTGC GGGACCCTGG
GGGGCAGCGC CTGGTGGTCC TACACCTGGA GGAAGGTATG TGGGGCCCAG CCCCAAGCTT
GGCACCGCCG TCTTCCTTCA GGTGGGCCGG GTCCTCCTAG GGAAGATCAG GGGCTGGCAG
AGCCCCCACC CTGGGCAGGG AGGCTGTGGT CTTGTTCCTA GGACTGGGTT GCGGGTCCGT
GGCCTGGAAG GTGGGCACCA CACTCTGTCC TGTCCCCGAA GCCCAGCTCT TAGACTTGCC
CCTGCCTCGG TGCCAGGGAG AGAGCTGCTG CCTTCTCCCC ACCCCTGAAG ACGACGCAGG
GCTCGGGGCC AGTGGAACCC TCCTTCCCAC AGCCCCAGCC TGTTCTCAGG GCCGCTGGCC
TAAGATACTC CCTGCGGGGA AGGGGCTTCA TCGGGCACCC CAACCCAGAG ACCCCAGGGC
GGCAGCCCCA CCCACAGCCT CAGACGCAGC CCCTGCCTGC CCCTGCCGTC ACCGCTCCCT
GGCTGCAGGA AGGCAGCTAA GAGGGGCACC CTTGTCCCCC GCTTGAGGTC CCCTGCACAG
TGGCCAGAGC GGCAGGGACA GATCCCAAAG ATTCCCGGGG GGTGTGGCCT TCAATGGCTC
AGGCGTCCCC TGCTGTCCCG GCTGCAGTGA CCTGGGAGCC AACACCCTCG CTGAGGTTCC
AGGAGCCCCC GCCTGGAGGA GCTGGCCCCC CAGAGCTGGC GCTGCTGGTG CTGTACCCTG
GGCCTGGCCC TGAGGTCACT GTGACGAGGG CTGGGCTGCC GGGTGCCCAG GTACCAGGGA
GTTGCATGGG GCAGTGCCCG GGCCGTGGCG GGGGGCATGA ATTTGTTGCA GGGTCTGCAG
TACTGAGAAC AGCGTAGAAC CAGTGGCGAT GGGAGGAAGG GCACCGGTAG AGCGGGGCTG
GGTAAGCCTC CATCCAGCCG GGCTGAGCCC TGGTCTCCGC AGAGCCTCTG CCCCTCCCGA
GACACCCGCT ACCTGGTGTT AGCGGTGGAC CGCCCTGCGG GGGCCTGGCG CGGCTCCGGG
CTGGCCTTGA CCCTGCAGCC CCGCGGAGAG GGTAGGTCCG CGTGGAGAGG GACGGGGAGC
CGGGTCGACT GCCCCCGGGC CCCCAGCCCC TGAGCCAGCC GCGTGCCCAC CCACCGCAGA
CTCCCGGCTG AGTACCGCCC GGCTGCAGGC ACTGCTGTTC GGCGACGACC ACCGCCTGCTT
CACACGGATG ACCCCGGCCC TGCTCCTGCT GCCGCGGTCC GAGCCCGCGC CGCTGCCTGC
GCACGGCCAG CTGGACACCG TGCCCTTCCC GCCGCCCAGG TGCGCGCAGG CACCGGGACA
CGGGGCAGGA GCGGGCGGGG GCGGCGTGGC CTCGTGGCCG CTCTCAACTC CTCCAATTGC
GGGTTCCAGG CCATCCGCGG AACTCGAGGA GTCGCCACCC AGCGCAGACC CCTTCCTGGA
GACGCTCACG CGCCTGGTGC GGGCGCTGCG GGTCCCCCCG GCCCGGGCCT CCGCGCCGCG
CCTGGCCCTG GATCCGGACG CGCTGGCCGG CTTCCCGCAG GGCCTAGTCA ACCTGTCGGA
CCCCGCGGCG CTGGAGCGCC TACTCGACGG CGAGGAGCCG CTGCTGCTGC TGCTGAGGCC
CACTGCGGCC ACCACCGGGG ATCCTGCGCC CCTGCACGAC CCCACGTCGG CGCCGTGGGC

CACGGCCCTG GCGCGCCGCG TGGCTGCTGA ACTGCAAGCG GCGGCTGCCG AGCTGCGAAG
CCTCCCGGGT CTGCCTCCGG CCACAGCCCC GCTGCTGGCG CGCCTGCTCG CGCTCTGCCC
AGGAGGCCCC GGCGGCCTCG GCGATCCCCT GCGAGCGCTG CTGCTCCTGA AGGCGCTGCA
GGGCCTGCGC GTGGAGTGGC GCGGGCGGGA TCCGCGCGGG CCGGGTCGGG CACAGCGCAG
CGCGGGGGCC ACCGCCGCCG ACGGGCCGTG CGCGCTGCGC GAGCTCAGCG TAGACCTCCG
CGCCGAGCGC TCCGTACTCA TCCCCGAGAC CTACCAGGCC AACAATTGCC AGGGCGTGTG
CGGCTGGCCT CAGTCCGACC GCAACCCGCG CTACGGCAAC CACGTGGTGC TGCTGCTGAA
GATGCAGGCC CGTGGGGCCG CCCTGGCGCG CCCACCCTGC TGCGTGCCCA CCGCCTACGC
GGGCAAGCTG CTCATCAGCC TGTCGGAGGA ACGCATCAGC GCGCACCACG TGCCCAACAT
GGTGGCCACC GAGTGTGGCT GCCGGTGACC CCTGCGCCGC GCGGACTCCT GCCCCGAGGG
TCCGGACGCG CCCCAGCTCG CGCCCCTTCC CATATTTATT CGGACCCCAA GCATCGCCCC
AATAAAGACC AGCAAGC

(the sequence of the human gene) (SEQ ID NO:1);

AGCACCC ACGATGCGGG ACCTGCCTCT
CACCAGCCTG GCCCTAGTGC TGTCTGCCCT GGGGGCTCTG CTGGGGACTG AGGCCCTCAG
AGCAGAGGAG CCAGCTGTGG GCACCAGTGG CCTCATCTTC CGAGAAGACT TGGACTGGCC
TCCAGGCATC CCACAAGAGC CTCTGTGCCT GGTGGCACTG GGCGGGGACA GCAATGGCAG
CAGCTCCCCC CTGCGGGTGG TGGGGGCTCT AAGCGCCTAT GAGCAGGCCT TCCTGGGGGC
CGTGCAGAGG GCCCGCTGGG GCCCCCGAGA CCTGGCCACC TTCGGGGTCT GCAACACCGG
TGACAGGCAG GCTGCCTTGC CCTCTCTACG GCGGCTGGGG GCCTGGCTGC GGGACCCTGG
GGGGCAGCGC CTGGTGGTCC TACACCTGGA GGAAGGTATG TGGGGCCCAG CCCCAAGCTT
GGCACCGCCG TCTTCCTTCA GGTGGGCCGG GTCCTCCTAG GGAAGATCAG GGGCTGGCAG
AGCCCCCACC CTGGGCAGGG AGGCTGTGGT CTTGTTCCTA GGACTGGGTT GCGGGTCCGT
GGCCTGGAAG GTGGGCACCA CACTCTGTCC TGTCCCCGAA GCCCAGCTCT TAGACTTGCC
CCTGCCTCGG TGCCAGGGAG AGAGCTGCTG CCTTCTCCCC ACCCCTGAAG ACGACGCAGG
GCTCGGGGCC AGTGGAACCC TTCTTCCCAC AGCCCCAGCC TGTTCTCAGG GCCGCTGGCC
TAAGATACTC CCTGCGGGGA AGGGGCTTCA TCGGGCACCC CAACCCAGAG ACCCCAGGGC
GGCAGCCCCA CCCACAGCCT CAGACGCAGC CCCTGCCTGC CCCTGCCGTC ACCGCTCCCT
GGCTGCAGGA AGGCAGCTAA GAGGGGCACC CTTGTCCCCC GCTTGAGGTC CCCTGCACAG
TGGCCAGAGC GGCAGGGACA GATCCCAAAG ATTCCCGGGG GGTGTGGCCT TCAATGGCTC
AGGCGTCCCC TGCTGTCCCG GCTGCAGTGA CCTGGGAGCC AACACCCTCG CTGAGGTTCC
AGGAGCCCCC GCCTGGAGGA GCTGGCCCCC CAGAGCTGGC GCTGCTGGTG CTGTACCCTG
GGCCTGGCCC TGAGGTCACT GTGACGAGGG CTGGGCTGCC GGGTGCCCAG GTACCAGGGA
GTTGCATGGG GCAGTGCCCG GGCCGTGGCG GGGGGCATGA ATTTGTTGCA GGGTCTGCAG
TACTGAGAAC AGCGTAGAAC CAGTGGCGAT GGGAGGAAGG GGACCGGTAG AGCGGGGCTG
GGTAAGCCTC CATCCAGCCG GGCTGAGCCC TGGTCTCCGC AGAGCCTCTG CCCCTCCCGA
GACACCCGCT ACCTGGTGTT AGCGGTGGAC CGCCCTGCGG GGGCCTGGCG CGGCTCCGGG
CTGGCCTTGA CCCTGCAGCC CCGCGGAGAG GGTAGGTCCG CGTGGAGAGG GACGGGGAGC
CGGGTCGACT GCCCCCGGGC CCCCAGCCCC TGAGCCAGCC GCGTGCCCAC CCACCGCAGA
CTCCCGGCTG AGTACCGCCC GGCTGCAGGC ACTGCTGTTC GGCGACGACC ACCGCTGCTT
CACACGGATG ACCCCGGCCC TGCTCCTGCT GCCGCGGTCC GAGCCCGCGC CGCTGCCTGC
GCACGGCCAG CTGGACACCG TGCCCTTCCC GCCGCCCAGG TGCGCGCAGG CACCGGGACA
CGGGGCAGGA GCGGGCGGGG GCGGCGTGGC CTCGTGGCCG CTCTCAACTC CTCCAATTGC
GGGTTCCAGG CCATCCGCGG AACTCGAGGA GTCGCCACCC AGCGCAGACC CCTTCCTGGA
GACGCTCACG CGCCTGGTGC GGGCGCTGCG GGTCCCCCCG GCCCGGGCCT CCGCGCCGCG

CCTGGCCCTG GATCCGGACG CGCTGGCCGG CTTCCCGCAG GGCCTAGTCA ACCTGTCGGA
CCCCGCGGCG CTGGAGCGCC TACTCGACGG CGAGGAGCCG CTGCTGCTGC TGCTGAGGCC
CACTGCGGCC ACCACCGGGG ATCCTGCGCC CCTGCACGAC CCCACGTCGG CGCCGTGGGC
CACGGCCCTG GCGCGCCGCG TGGCTGCTGA ACTGCAAGCG GCGGCTGCCG AGCTGCGAAG
CCTCCCGGGT CTGCCTCCGG CCACAGCCCC GCTGCTGGCG CGCCTGCTCG CGCTCTGCCC
AGGAGGCCCC GGCGGCCTCG GCGATCCCCT GCGAGCGCTG CTGCTCCTGA AGGCGCTGCA
GGGCCTGCGC GTGGAGTGGC GCGGGCGGGA TCCGCGCGGG CCGGGTCGGG CACAGCGCAG
CGCGGGGGCC ACCGCCGCCG ACGGGCCGTG CGCGCTGCGC GAGCTCAGCG TAGACCTCCG
CGCCGAGCGC TCCGTACTCA TCCCCGAGAC CTACCAGGCC AACAATTGCC AGGGCGTGTG
CGGCTGGCCT CAGTCCGACC GCAACCCGCG CTACGGCAAC CACGTGGTGC TGCTGCTGAA
GATGCAGGCC CGTGGGGCCG CCCTGGCGCG CCCACCCTGC TGCGTGCCCA CCGCCTACGC
GGGCAAGCTG CTCATCAGCC TGTCGGAGGA ACGCATCAGC GCGCACCACG TGCCCAACAT
GGTGGCCACC GAGTGTGGCT GCCGGTGACC CCTGCGCCGC GCGGACTCCT GCCCCGAGGG
TCCGGACGCG CCCCAGCTCG CGCCCCTTCC CATATTTATT CGGACCCCAA GCATCGCCCC
AATAAAGACC AGCAAGC

(the sequence of human cDNA) (SEQ ID NO:2);

CAAGGTCATG TCCCAGGAGG AGATAGGGAC CGCCCTGCAC CACAAACAGC TCTGCTCCCT CTTATAAAGT AGGGCAGCCC
AGCCCCTGGA
AGCTCCCAGG ATGCCCGGTC CATCTCTCTC TCTGGCCCTG GTGCTGTCGG CCATGGGGGC
TCTGCTGAGG CCAGGGACCC CCAGGGAAGA AGTCTTCAGC ACCTCAGCCT TGCCCAGGGA
GCAGGCCACA GGCAGCGGGG CACTCATCTT TCAGCAAGCC TGGGACTGGC CACTCTCCAG
TCTCTGGCTG CCAGGCAGCC CTCTGGACCC CCTGTGCCTG GTGACCCTGC ATGGGAGTGG
CAACGGGAGC AGGGCCCCCC TGCGGGTGGT GGGGGTCCTG AGCAGCTACG AGCAGGCCTT
CCTGGAGGCT GTGCGGCGCA CCCACTGGGG CCTGAGTGAC TTGACCACCT TCGCAGTGTG
CCCCGCTGGC AACGGGCAGC CTGTGCTGCC CCACCTGCAG CGGCTGCAGG CATGGCTGGG
GGAGCCCGGG GGGCGGTGGC TGGTGGTCCT GCACCTGGAG GAAGTGACGT GGGAGCCAAC
ACCCTTGCTG AGGTTCCAGG AGCCTCCGCC TGGAGGAGCC AGCCCCCCAG AGCTGGCGCT
GCTGGTGGTG TACCCAGGGC CTGGCCTGGA GGTCACTGTC ACCGGGGCTG GGCTACCTGG
CACCCAGAGC CTCTGCCTGA CCGCGGACTC GGACTTCCTG GCCTTGGTCG TGGACCACCC
GGAGGGGGCC TGGCGCCGGC CTGGGTTAGC CCTTACCCTG CGGCGCCGTG GAAATGGTGC
GCTCCTGAGC ACTGCCCAGC TGCAGGCGCT GCTGTTCGGT GCGGACTCCC GCTGCTTCAC
ACGAAAGACC CCAGCCCTGT TACTCTTGCT GCCGGCCCGG TCTTCGGCAC CGATGCCCGC
GCACGGTCGG CTGGACTTGG TGCCCTTCCC GCAGCCCAGG GCTTCCCCGG AGCCAGAGGA
GGCACCGCCC AGCGCTGATC CCTTCCTGGA GACTCTCACG CGCCTGGTGC GCGCGCTTGC
GGGACCCCCG GCCCGAGCCT CGCCACCGCG GCTGGCCTTG GACCCGGGCG CACTGGCTGG
TTTCCCGCAG GGCCAGGTCA ACCTGTCGGA CCCCGCGGCC CTGGAGCGCC TGCTGGACGG
CGAGGAGCCG CTGCTGCTGC TGCTGCCGCC GACGGCAGCC ACCACCGGGG TCCCCGCAAC
GCCGCAAGGT CCCAAGTCCC CTCTGTGGGC CGCGGGACTA GCGCGCCGGG TGGCTGCCGA
GCTTCAGGCG GTGGCCGCCG AGCTGCGTGC CCTCCCGGGG CTGCCTCCAG CTGCCCCACC
GCTGCTGGCG CGCCTGCTGG CACTGTGCCC GGGAAACCCA GACAGCCCCG GCGGCCCGCT
GCGCGCGCTG CTGCTGCTCA AAGCGCTGCA GGGCCTGCGC GCTGAGTGGC GCGGGCGGGA
GCGGAGCGGC TCTGCACGGG CGCAGCGCAG CGCCGGGGCC GCGGCTGCAG ACGGGCCGTG
CGCTCTGCGT GAGCTGAGCG TAGACCTGCG GGCCGAGCGC TCGGTGCTCA TCCCCGAGAC
ATACCAGGCC AACAACTGCC AGGGGGCCTG CGGCTGGCCT CAGTCGGACC GCAACCCGCG
CTACGGCAAC CACGTGGTGC TGCTGCTAAA GATGCAGGCC CGCGGCGCCA CCCTGGCGCG

CCCGCCCTGC TGTGTGCCCA CAGCCTACAC CGGCAAGCTC CTCATCAGCC TGTCCGAGGA
GCGCATCAGT GCGCACCACG TCCCAAACAT GGTGGCCACC GAATGCGGCT GCCGGTGACC
TCGCGCCGTG CTCCTCGTGC TGCCCCGGCC CGTATTTATT CGGACCCCGT CATTGCCCCA
TTAAACACGG GAAGGC

(the sequence of the bovine gene) (SEQ ID NO:3);

AGCTCCCAGG ATGCCCGGTC CATCTCTCTC TCTGGCCCTG GTGCTGTCGG CCATGGGGGC
TCTGCTGAGG CCAGGGACCC CCAGGGAAGA AGTCTTCAGC ACCTCAGCCT TGCCCAGGGA
GCAGGCCACA GGCAGCGGGG CACTCATCTT TCAGCAAGCC TGGGACTGGC CACTCTCCAG
TCTCTGGCTG CCAGGCAGCC CTCTGGACCC CCTGTGCCTG GTGACCCTGC ATGGGAGTGG
CAACGGGAGC AGGGCCCCCC TGCGGGTGGT GGGGGTCCTG AGCAGCTACG AGCAGGCCTT
CCTGGAGGCT GTGCGGCGCA CCCACTGGGG CCTGAGTGAC TTGACCACCT TCGCAGTGTG
CCCCGCTGGC AACGGGCAGC CTGTGCTGCC CCACCTGCAG CGGCTGCAGG CATGCCTGGG
GGAGCCCGGG GGGCGGTGGC TGGTGGTCCC GCACCTGGAG GAAGTGACGT GGGAGCCAAC
ACCCTTGCTG AGGTTCCAGG AGCCTCCGCC TGGAGGAGCC AGCCCCCCAG AGCTGGCGCT
GCTGGCTGTG TACCCAGGGC CTGGCCTGGA GGTCACTGTC ACCGGGGCTG GGCTACCTGG
CACCCAGAGC CTCTGCCTGA CCGCGGACTC GGACTTCCTG GCCTTGGTCG TGGACCACCC
GGAGGGGGCC TGGCGCCGGC CTGGGTTAGC CCTTACCCTG CGGCGCCGTG GAAATGGTGC
GCTCCTGAGC ACTGCCCAGC TGCAGGCGCT GCTGTTCGGT GCGGACTCCC GCTGCTTCAC
ACGAAAGACC CCAGCCCTGT TACTCTTGCT GCCGGCCCGG TCTTCGGCAC CGATGCCCGC
GCACGGTCGG CTGGACTTGG TGCCCTTCCC GCAGCCCAGG GCTTCCCCGG AGCCAGAGGA
GGCACCGCCC AGCGCTGATC CCTTCCTGGA GACTCTCACG CGCCTGGTGC GCGCGCTTGC
GGGACCCCCG GCCCGAGCCT CGCCACCGCG GCTGGCCTTG GACCCGGGCG CACTGGCTGG
TTTCCCGCAG GGCCAGGTCA ACCTGTCGGA CCCCGCGGCC CTGGAGCGCC TGCTGGACGG
CGAGGAGCCG CTGCTGCTGC TGCTGCCGCC GACGGCAGCC ACCACCGGGG TCCCCGCAAC
GCCGCAAGGT CCCAAGTCCC CTCTGTGGGC CGCGGGACTA GCGCGCCGGG TGGCTGCCGA
GCTTCAGGCG GTGGCCGCCG AGCTGCGTGC CCTCCCGGGG CTGCCTCCAG CTGCCCCACC
GCTGCTGGCG CGCCTGCTGG CACTGTGCCC GGGAAACCCA GACAGCCCCG GCGGCCCGCT
GCGCGCGCTG CTGCTGCTCA AAGCGCTGCA GGGCCTGCGC GCTGAGTGGC GCGGGCGGGA
GCGGAGCGGC TCTGCACGGG CGCAGCGCAG CGCCGGGCCC GCGGCTGCAG ACGGGCCGTG
CGCTCTGCGT GAGCTGAGCG TAGACCTGCG GGCCGAGCGC TCGGTGCTCA TCCCCGAGAC
ATACCAGGCC AACAACTGCC AGGGGGCCTG CGGCTGGCCT CAGTCGGACC GCAACCCGCG
CTACGGCAAC CACGTGGTGC TGCTGCTAAA GATGCAGGCC CGCGGCGCCA CCCTGGCGCG
CCCGCCCTGC TGTGTGCCCA CAGCCTACAC CGGCAAGCTC CTCATCAGCC TGTCCGAGGA
GCGCATCAGT GCGCACCACG TCCCAAACAT GGTGGCCACC GAATGCGGCT GCCGGTGACC
TCGCGCCGTG CTCCTCGTGC TGCCCCGGCC CGTATTTATT CGGACCCCGT CATTGCCCCA
TTAAACACGG GAAGGC

(the sequence of bovine cDNA) (SEQ ID NO:4); and

(b) DNA sequences which hybridize to the aforementioned DNA sequences and which code on expression for a human MIS-like polypeptide or a bovine-like polypeptide and preferably have a substantial degree of homology (more preferably, at least about 70% homology and most preferably at least about 80% homology) and the aforementioned DNA sequences; and

(c) DNA sequences which code on expression for a polypeptide code for on expression by any of the foregoing DNA sequences. Recombinant DNA molecules containing these DNA sequences, hosts transformed with them and MIS-like polypeptides coded for on expression by them are also part of this invention.

The DNA sequences, recombinant DNA molecules, hosts and processes of this invention enable the production of MIS-like polypeptides for use in the treatment of ovarian cancer and other suitable cancers.

Also within the scope of the present invention are the polypeptide selected from the group consisting of

MRDLPLTSLALVLSALGALLGTEALRAEEPAVGTSGLIFREDLD
WPPGIPQEPLCLVALGGDSNGSSSPLRVVGALSAYEQAFLGAVQRARWGPRDLATFGV
CNTGDRQAALPSLRRLGAWLRDPGGQRLVVLHLEEVTWEPTPSLRFQEPPPGGAGPPE
LALLVLYPGPGPEVTVTRAGLPGAQSLCPSRDTRYLVLAVDRPAGAWRGSGLALTLQP
RGEDSRLSTARLQALLFGDDHRCFTRMTPALLLLPRSEPAPLPAHGQLDTVPFPPPRP
SAELEESPPSADPFLETLTRLVRALRVPPARASAPRLALDPDALAGFPQGLVNLSDPA
ALERLLDGEEPLLLLLRPTAATTGDPAPLHDPTSAPWATALARRVAAELQAAAAELRS
LPGLPPATAPLLARLLALCPGGPGGLGDPLRALLLLKALQGLRVEWRGRDPRGPGRAQ
RSAGATAADGPCALRELSVDLRAERSVLIPETYQANNCQGVCGWPQSDRNPRYGNHVV
LLLKMQARGAALARPPCCVPTAYAGKLLISLSEERISAHHVPNMVATECGCR
(the complete amino acid sequence of human MIS protein) (SEQ ID NO: 5);

RAEEPAVGTSGLIFREDLD
WPPGIPQEPLCLVALGGDSNGSSSPLRVVGALSAYEQAFLGAVQRARWGPRDLATFGV
CNTGDRQAALPSLRRLGAWLRDPGGQRLVVLHLEEVTWEPTPSLRFQEPPPGGAGPPE
LALLVLYPGPGPEVTVTRAGLPGAQSLCPSRDTRYLVLAVDRPAGAWRGSGLALTLQP
RGEDSRLSTARLQALLFGDDHRCFTRMTPALLLLPRSEPAPLPAHGQLDTVPFPPPRP
SAELEESPPSADPFLETLTRLVRALRVPPARASAPRLALDPDALAGFPQGLVNLSDPA
ALERLLDGEEPLLLLLRPTAATTGDPAPLHDPTSAPWATALARRVAAELQAAAAELRS
LPGLPPATAPLLARLLALCPGGPGGLGDPLRALLLLKALQGLRVEWRGRDPRGPGRAQ

RSAGATAADGPCALRELSVDLRAERSVLIPETYQANNCQGVCGWPQSDRNPRYGNHVV

LLLKMQARGAALARPPCCVPTAYAGKLLISLSEERISAHHVPNMVATECGCR

(the amino acid sequence of mature human MIS protein) (SEQ ID NO: 6);

MPGPSLSLALVLSAMGALLRPGTPRBEVFSTSALPREQATGSGA

LIFQQAWDWPLSSLWLPGSPLDPLCLVTLHGSGNGSRAPLRVVGVLSSYEQAFLEAVR

RTHWGLSDLTTFAVCPAGNGQPVLPHLQRLQAWLGEPGGRWLVVLHLEEVTWEPTPLL

RFQEPPPGGASPPELALLVVYPGPGLEVTVTGAGLPGTQSLCLTADSDFLALVVDHPE

GAWRRPGLALTLRRRGNGALLSTAQLQALLFGADSRCFTRKTPALLLLLPARSSAPMP

AHGRLDLVPFPQPRASPEPEEAPPSADPFLETLTRLVRALAGPPARASPPRLALDPGA

LAGFPQGQVNLSDPAALERLLDGEEPLLLLLPPTAATTGVPATPQGPKSPLWAAGLAR

RVAAELQAVAAELRALPGLPPAAPPLLARLLALCPGNPDSPGGPLRALLLLKALQGLR

AEWRGRERSGSARAQRSAGAAAADGPCALRELSVDLRAERSVLIPETYQANNCQGACG

WPQSDRNPRYGNHVVLLLKMQARGATLARPPCCVPTAYTGKLLISLSEERISAHHVPN

MVATECGCR

(the complete amino acid sequence of bovine MIS protein) (SEQ ID NO: 7);

REEVFSTSALPREQATGSGA

LIFQQAWDWPLSSLWLPGSPLDPLCLVTLHGSGNGSRAPLRVVGVLSSYEQAFLEAVR

RTHWGLSDLTTFAVCPAGNGQPVLPHLQRLQAWLGEPGGRWLVVLHLEEVTWEPTPLL

RFQEPPPGGASPPELALLVVYPGPGLEVTVTGAGLPGTQSLCLTADSDFLALVVDHPE

GAWRRPGLALTLRRRGNGALLSTAQLQALLFGADSRCFTRKTPALLLLLPARSSAPMP

AHGRLDLVPFPQPRASPEPEEAPPSADPFLETLTRLVRALAGPPARASPPRLALDPGA

LAGFPQGQVNLSDPAALERLLDGEEPLLLLLPPTAATTGVPATPQGPKSPLWAAGLAR

RVAAELQAVAAELRALPGLPPAAPPLLARLLALCPGNPDSPGGPLRALLLLKALQGLR

AEWRGRERSGSARAQRSAGAAAADGPCALRELSVDLRAERSVLIPETYQANNCQGACG

WPQSDRNPRYGNHVVLLLKMQARGATLARPPCCVPTAYTGKLLISLSEERISAHHVPN

MVATECGCR

(the amino acid sequence of mature bovine MIS protein) (SEQ ID NO: 8); and

MIS-like polypeptides related thereto.

The C- terminal amino acid and nucleotide sequences for bovine MIS are shown in **FIG. 17** of U.S. Patent No. 5,661, 126, which is hereby incorporated by reference in its entirety. Fig. 17 shows the amino acid (SEQ ID NO:2, herein referred to as SEQ ID NO:9) and nucleotide (SEQ ID NO:1, herein referred to as SEQ ID NO:10) sequences of bovine MIS C-fragment, having about 109 amino acids. The C-terminal amino acid and nucleotide sequences for human MIS are shown in **FIG. 18** of U.S. Patent No. 5,661, 126. Fig 18 shows the amino acid (SEQ ID NO:4, herein referred to as SEQ ID NO:11) and nucleotide (SEQ ID NO:3, herein referred to as SEQ ID NO:12) sequences of human MIS C-terminal fragment, having about 109 amino acids. A comparison of the amino acid sequence for human and bovine MIS, showing the - and C- terminal domains is shown in Cate et al., Handbook of Experimental Pharmacology 95/II: 184, edited by M.B. Spoon and A.B. Roberts, Spinger-Verlag Berlin Heidelberg (1990), which are hereby incorporated by reference.